

Vendor Profile SAP AG

US Address	SAP America, Inc. 3999 West Chester Pike Newtown Square, PA 19073 (610) 661-1000 (610) 355-3106
Year Founded	1972
Annual Revenue	\$9.7 billion
Number of Employees	31,000+

1.1 Overview

SAP AG (SAP) is a provider of business software solutions. Its principal activities are the development, marketing, sales and support of a variety of software solutions, primarily enterprise application software products for organizations, including corporations, governmental agencies, aerospace and defense, and educational institutions. mySAP Business Suite solutions are helping enterprises around the world improve customer relationships, enhance partner collaboration and create efficiencies across their supply chains and business operations. The Company has more than 26,000 customers in over 120 countries that run more than 88,700 installations of SAP software.

1.2 Financial Results

¹The following financial results are provided to document SAP's fiscal viability. ²

¹ Source: Wall Street Journal.

² Based on Euro to Dollar exchange rate on 12-April-2005.

Year Ended	12/31/2004	12/31/2003	12/31/2002	12/31/2001	12/31/2000
Software Revenue	3,050,357	2,774,623	2,959,689	3,333,952	3,176,599
Total Other Revenue	6,658,143	6,300,957	6,617,476	6,150,147	4,917,070
Total Revenue	9,708,500	9,075,580	9,577,164	9,484,099	8,093,669
Total Operating Expense	7,100,812	6,848,199	7,476,837	7,788,551	7,056,659
Operating Income	2,607,688	2,227,381	2,100,327	1,695,548	1,037,010

(Euro/Dollar exchange= 1.29197)

1.3 ERP Products

³SAP is a leading packaged-business application provider. Its products include R/3 Enterprise Core, its enterprise resource planning offering, mySAP, its e-business application suite and numerous application extensions. SAP's customer base is primarily comprised of large enterprises, of which 80 percent are R/3 customers and 20 percent are mySAP customers.

In addition to its core product offering, SAP offers additional components that can be "bolted on" to the core product in order to extend its functionality. Independent software vendors also offer numerous specialized products that can be integrated with SAP's Business Suite (R/3) to extend its functionality. For more information about third-party bolt-on products, see Bolt-ons page.

1.3.1 SAP Core Components

The SAP product portfolio is based on R/3. The core R/3 components have been Web-enabled and are offered as the mySAP suite of products. The core components of mySAP, include⁴:

- [mySAP ERP](#) -- This solution provides end-to-end functionality for
 - Financials,
 - Human Capital Management,
 - Operations,
 - Corporate Services.

³ Source: Gartner

⁴ See <http://www.sap.com/solutions/index.epx>

1.3.2 Bolt-on Products

ERP products are packaged as a core set of functions that the vendor believes will be generally applicable in its target market. The products can be extended to accommodate additional functionality, specific to an industry segment or to a particular customer, by adding software components via some form of configuration or external integration point. SAP refers to these product extensions as “Add-ons.”

These extensions can be further classified, in order by complexity and scope, as:

- Add-in—Fine-grained functionality that enhances an existing component. Add-ins accommodate user requirements too specific to be included in the core product. An example of an add-in might be a specific benefit calculation in an HR component.
- Add-on—Components provided by the vendor, a third party, or a customer that extend the functionality of the core product. Add-ons may be packaged with the core product, and “turned on” by configuring the application. Other add-ons are provided as separate software components that are seamlessly integrated with the core product.
- Bolt-on—Third-party applications that provide supplemental functionality, not provided by the vendor product, or that a customer elects to use in place of the ERP vendor’s solution. Bolt-ons span a wide range of applications from report generators to full logistics systems.

SAP provides numerous product extensions that provide specialized functionality for specific industry segments or functional areas within an enterprise.

- [mySAP Business Suite](#)
- [SAP xApps](#)
- [SAP Manufacturing](#)
- [SAP Service and Asset Management](#)
- [SAP solutions for mobile business](#)
- [SAP Analytics](#)

SAP also provides a set of integration tools and technologies that enable third-party vendors and customers to integrate their software with SAP solutions seamlessly to extend the functionality of the core product. SAP uses the term Add-on to refer to:

- Industry Solutions,
- Plug-ins,
- Customer-specific development projects.

An Add-On Installation Tool is provided by SAP to enable users to install and upgrade add-ons directly from their SAP System

SAP offers integration and certification services to its third-party software development partners. These services include an interface certification program, consulting, and access to test systems. SAP third-party software partners may qualify in two categories:

- Software partner
- Content partner

The SAP NetWeaver Partner Initiative is an extension of the company's partner program and is considered by SAP to be a critical ingredient for successful delivery of application components that are compliant with their Enterprise Services Architecture (xApps).

SAP xApps are a category of application extensions, developed by SAP and SAP Certified Partners, for specific industry segments. The portfolio of xApps on this publication date includes:

- [SAP xApp Cost and Quotation Management \(SAP xCQM\)](#) -- Helps manufacturing companies estimate internal and external costs better and submit more accurate quotes
- [SAP xApp Emissions Management \(SAP xEM\)](#) -- Enables energy-consuming and carbon dioxide-producing businesses to comply with environmental regulations
- [SAP xApp Integrated Exploration and Production \(SAP xIEP\)](#) -- Creates an enterprise-wide operating environment to optimize the exploration and production (E&P) life cycle
- [SAP xApp Product Definition \(SAP xPD\)](#) -- Helps translate ideas into products
- [SAP xApp Resource and Portfolio Management \(SAP xRPM\)](#) -- Improves the ability to manage and execute enterprisewide portfolios of IT or R&D projects
- [SAP Global Trade Services \(SAP GTS\)](#) -- Automates and streamlines complex cross-border trade processes, and helps manage international trade risks

The xApp program is a relatively new initiative and the application portfolio will continue to grow.

1.4 Enterprise Application Integration (EAI)

SAP NetWeaver is the integration and application platform that forms the foundation of the mySAP Business Suite family of solutions. It is also the technical enabler that supports the evolution to Enterprise Services Architecture, which delivers a blueprint for services-based, enterprise-scale business solutions.

At the date of this publication, SAP NetWeaver consists of the following products:

1. SAP® Web Application Server
2. SAP® Enterprise Portal
3. SAP® Business Information Warehouse
4. SAP® Exchange Infrastructure

5. SAP® Knowledge Management
6. SAP® Mobile Infrastructure
7. SAP® Master Data Management
8. SAP® Composite Application Framework
9. SAP® Lifecycle Management

Figure 1 illustrates the NetWeaver environment and components and how they relate to other SAP and third-party applications.⁵

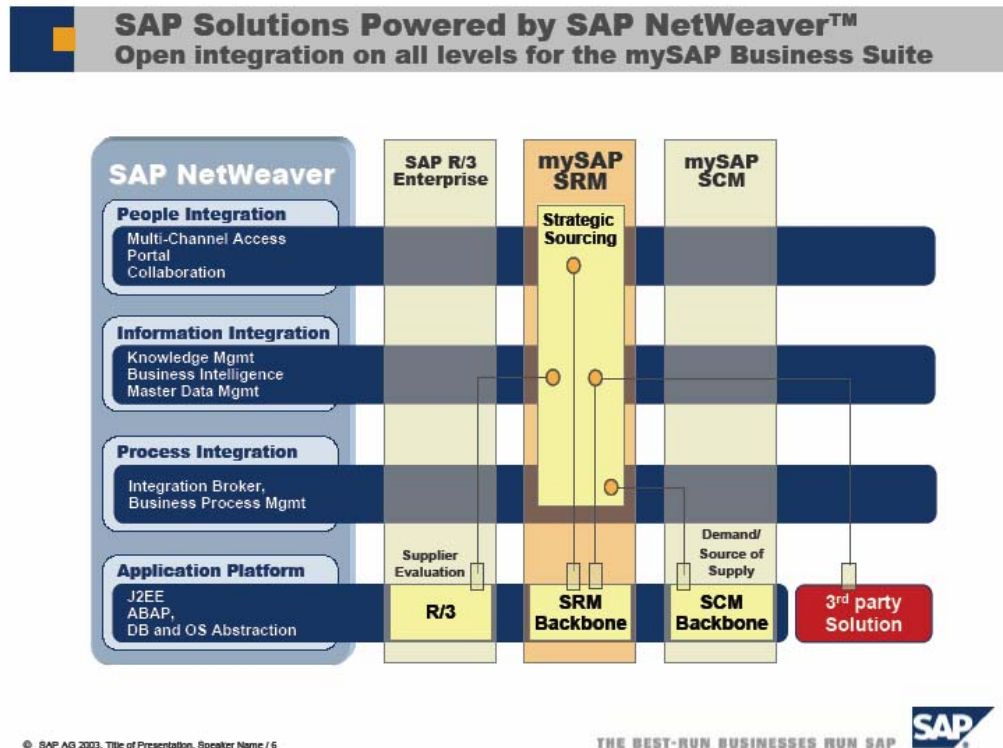


Figure 1. SAP NetWeaver

According to SAP, NetWeaver is a "Comprehensive Integration and Application Platform" that has become the foundation of xApps and the mySAP™ Business Suite of products.

"SAP is evolving its solutions according to the Enterprise Services Architecture blueprint. We have already released several solutions that leverage this approach, including mySAP Customer Relationship Management, mySAP Supplier Relationship

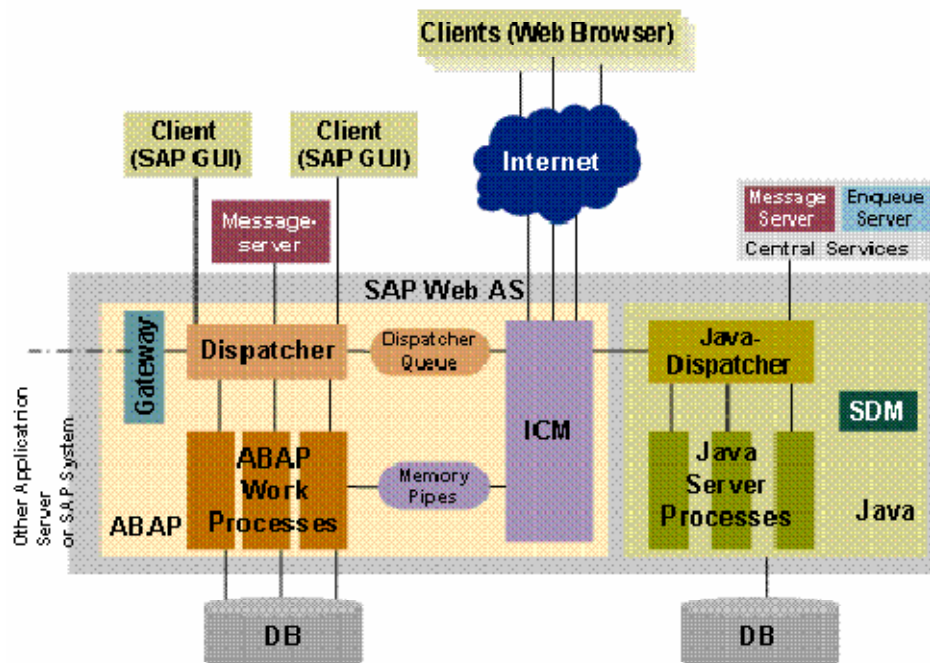
⁵ Source is SAP presentation titled, "SAP NetWeaver Training Overview," dated 11 Feb 2004.

Management, and SAP xApps packaged composite applications. Soon SAP will release solutions that are designed from the ground up according to Enterprise Services Architecture,” <http://www.sap.com/solutions/netweaver/technicaldetails/esa.epx>

The SAP Application Server provides the environment in which instances of SAP are executed. An SAP System may contain several application servers. These communicate with the presentation server, the database server and with each other. The most important components of an application server are its work processes. Other components are the SAP Gateway and the Internet Communication Manager (ICM).

The SAP Web Application Server is the application platform for SAP NetWeaver. The SAP Gateway is a key component of the Application Server and enables SAP Systems and external programs to communicate with one another. The Gateway provides *CPI-C*⁶ services, which are based on TCP/IP. Each instance of an SAP System has a gateway. The gateway enables communication between server processes and external programs, as well as communication between server processes from different instances or SAP Systems.




Figure 2 illustrates the components of the SAP Web Application Server.



⁶ The *Common Programming Interface - Communications* (CPI-C) is a standard call interface for applications which require direct program-to-program communication. SAP's CPI-C implementations support the *X/Open Developers' Specification - CPI-C*.

Figure 2. SAP Web Application Server

Some other components of the server, relevant to EAI, are described below:

- The  [Internet Communication Manager \(ICM\)](#) sets up the connection to the Internet. It can process both server and client Web requests. It supports the protocols HTTP, HTTPS, and SMTP. The SAP Web AS can behave as a Web server or as a Web client (see  [SAP Web Application Server: Web Server or Web Client](#))
- The dispatcher distributes the requests to the work processes. If all the processes are occupied the requests are stored in the dispatcher queue.
- The  [SAP Gateway](#) makes the RFC interface between the SAP instances available (within an SAP System and beyond system boundaries).
- The message server exchanges messages and balances the load in the SAP System.

For more information about the Web Application Server, see http://help.sap.com/saphelp_nw04/helpdata/en/84/54953fc405330ee10000000a114084/frameset.htm.

1.5 Methodology

SAP has branded their full lifecycle framework ValueSAP (VSAP). The AcceleratedSAP (ASAP) methodology is SAP's implementation methodology, under the ValueSAP umbrella. ASAP is SAP's approach to implementing the company's solutions across industries and environments. As stated by SAP, ASAP is specific to implementation of SAP solutions—it is not a generally applicable solution implementation methodology.

1.5.1 SAP AcceleratedSAP

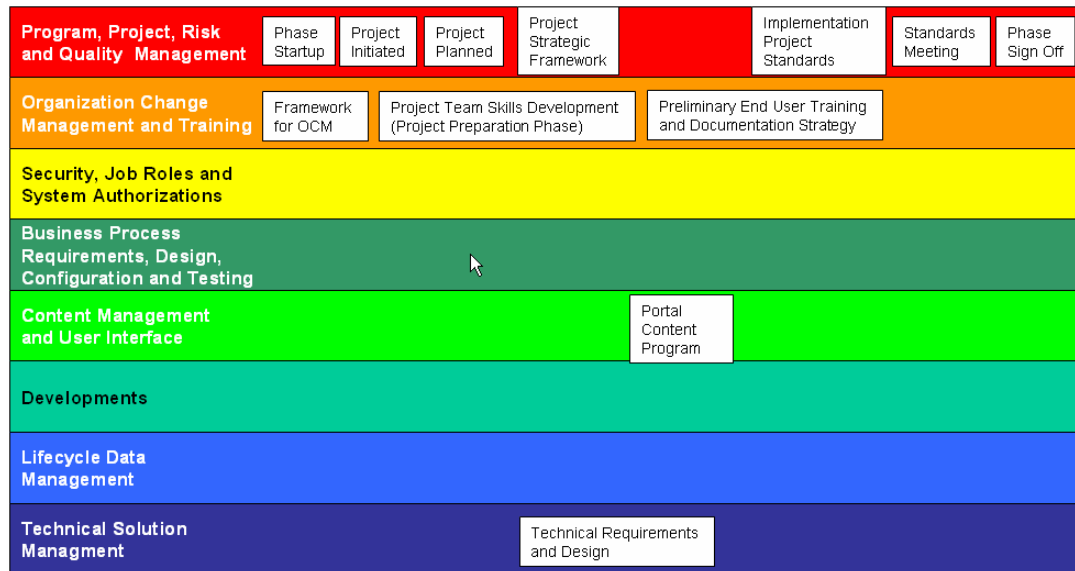
ASAP was released as SAP's recommended implementation methodology in 1997. It is a phased implementation approach with processes that closely parallel the leading software development methodologies.

1.5.1.1 Phases

ASAP defines five phases for product implementation projects. For more information, see the SAP presentation titled, "[ASAP Implementation Roadmap](#)," dated Aug 2004.

Phase 1: Project Preparation

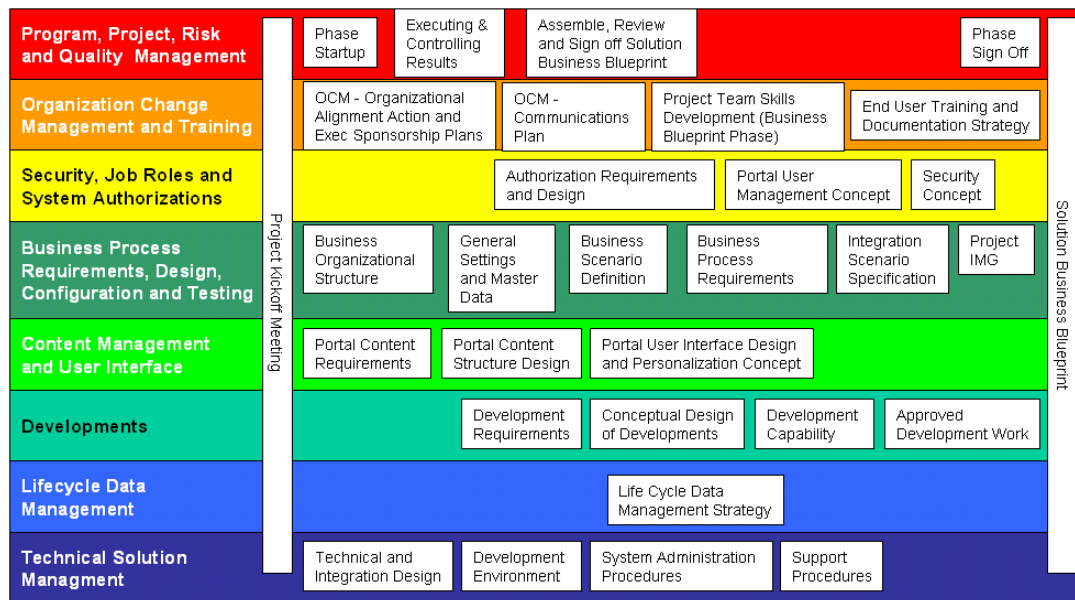
During this phase the team goes through initial planning and preparation for SAP project.



The steps in Phase 1 help identify and plan the primary focus areas that need to be considered.

Phase 2: Business Blueprint

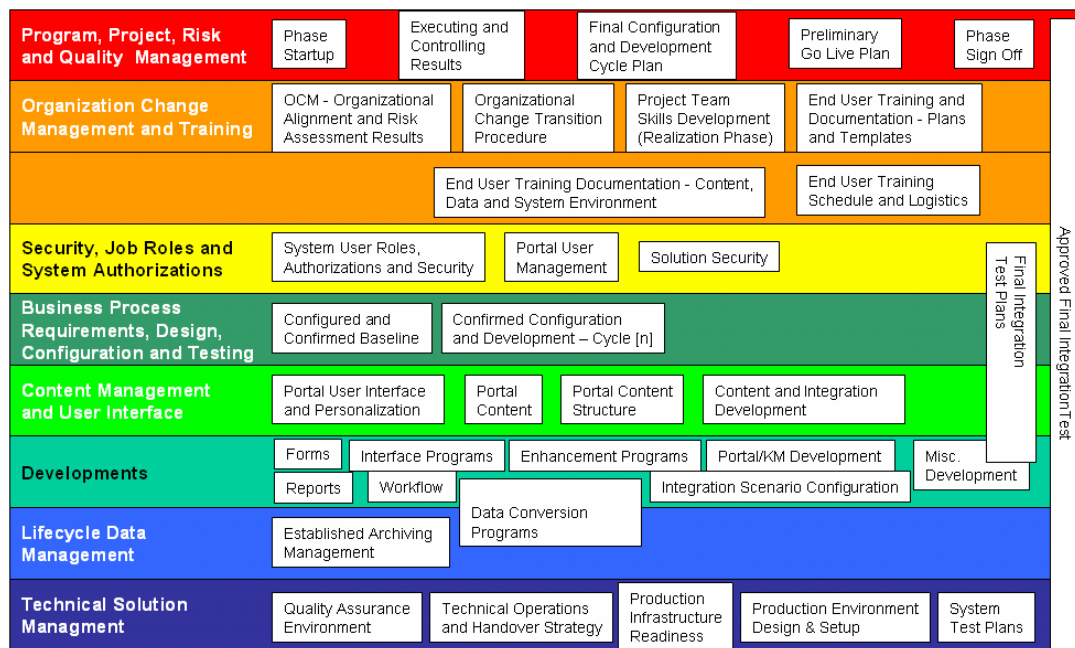
The purpose of this phase is to achieve a common understanding of how the company intends to run SAP to support its business. The result is the Business Blueprint, detailed documentation of the results gathered during requirements workshops.



The Business Blueprint documents the company's business process requirements.

Phase 3: Realization

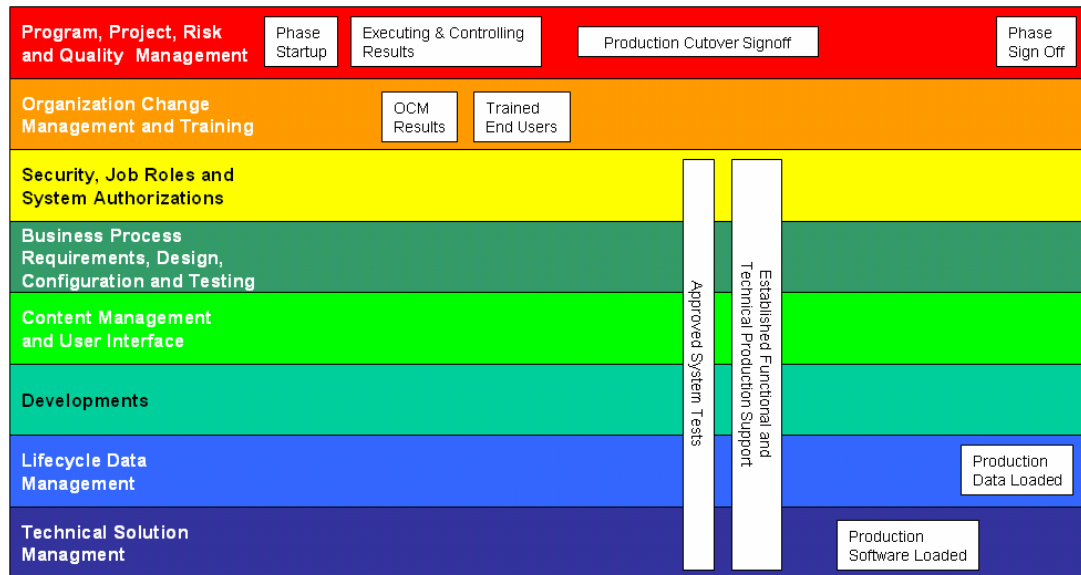
The purpose of this phase is to implement all the business process requirements based on the Business Blueprint. The system realization methodology is provided in two work packages: Baseline (major scope); and Final configuration (remaining scope).



The objectives are final implementation of the system, an overall test, and release of the system for production (live) operation. In addition, the project team receives relevant knowledge.

Phase 4: Final Preparation

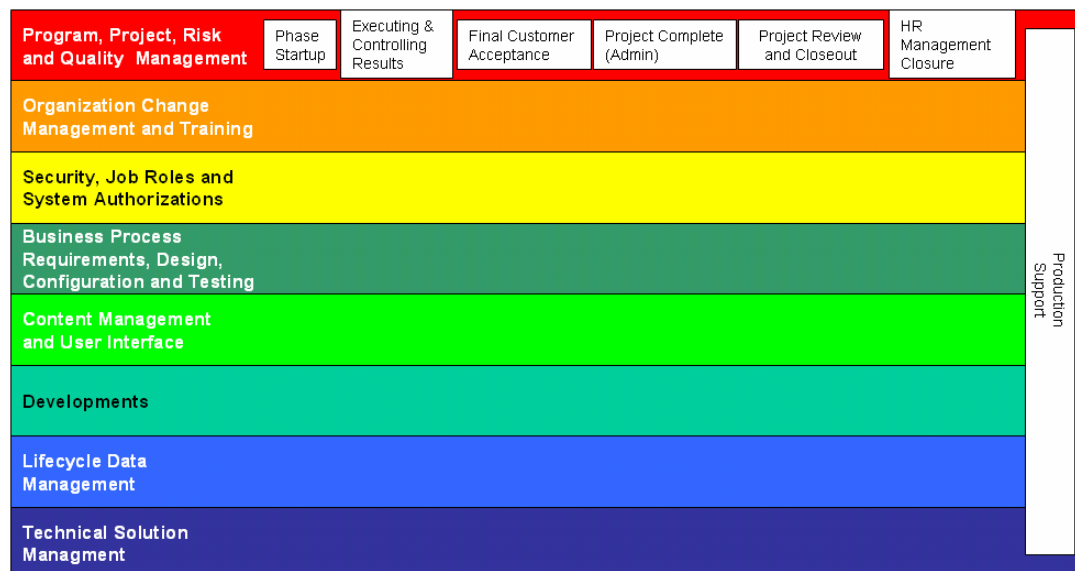
The purpose of this phase is to complete the final preparation (including testing, end user training, system management and cutover activities) to finalize readiness to go live. The Final Preparation phase also serves to resolve all critical open issues.



On successful completion of this phase the SAP System is ready to go live.

Phase 5: Go Live & Support

The purpose of this phase is to move from a project-oriented, pre-production environment to live production operation.



1.5.2 Roadmaps

SAP provides roadmaps as guides for specific types of activities.

- **Customer Solution Strategy.** This ValueSAP Roadmap is used in the Discovery and Evaluation phase of ValueSAP by customers who are designing a new information technology infrastructure. Besides the Program Charter, a "Strategy Blueprint" containing the initial Customer Solution Map, as well as specific Key Performance Indicators defined for the particular customer's business, form part to the deliverables of this Roadmap.
- **Implementation.** The Implementation Roadmap for SAP Solutions provides the methodological framework for the project team to leverage in the implementation of a SAP solution. It covers, among other things, the necessary project management, requirements gathering, design, configuration of business processes, technical implementation, test procedures, training and organization change management.

In this roadmap deliverables represent the main objects within a project. Each deliverable provides an outline of the Outputs (components creating the deliverable) and relevant Methods that represent the activities and tasks the project team conducts.

- **Global Template.** The Global Template Roadmap describes how to organize and how to run a project in which a corporate template is developed. The Global Template Roadmap is geared to more complex implementation or harmonization projects, typically involving more than one kind of SAP solution, and a variety of sites, possibly in different countries. The corporate template is rolled out to other sites in a follow-up project.
- **Upgrade.** This roadmap is designed to help carry out the customizing activities required for an upgrade. These customizing activities are essential to the continued use of the same application components after an upgrade.
- **Solution Management.** The Solution Management Roadmap provides a methodology for the implementation of the technical infrastructure and its operation. The Solution Management Roadmap complements the Implementation Roadmap.

1.6 Reference Models

SAP's Reference Models are based on the suite of ERP products portrayed in the following landscape diagram, Figure 3. The SAP product suite includes Solution Manager, a tool that allows customers to generate a Reference Model specific to their functional requirements. SAP describes the functionality provided by Solution Manager—relevant to the Reference Model—as follows.

- **mySAP Business Suite implementation** -- SAP Solution Manager provides content that accelerates implementation. Configuration information and a process-driven approach to implementation speed the blueprint, configuration, and final preparation phases. SAP Solution Manager enables efficient project administration and centralized control of cross-component implementations.

- **Global rollout** -- The toolset eases process standardization and harmonization across organizations and locations by providing proven methodologies and all necessary functionality. Configuration settings needn't be re-entered into local components.
- **Synchronization of custom settings** -- SAP Solution Manager helps customers maintain consistency as they customize heterogeneous IT environments. It enables safer administration of customization, less error-prone replication of custom settings, and simpler consistency checks.
- **Testing** -- SAP Solution Manager speeds test preparation and execution. It provides a single point of access to the complete system landscape and enables centralized storage of testing material and test results to support cross-component tests.

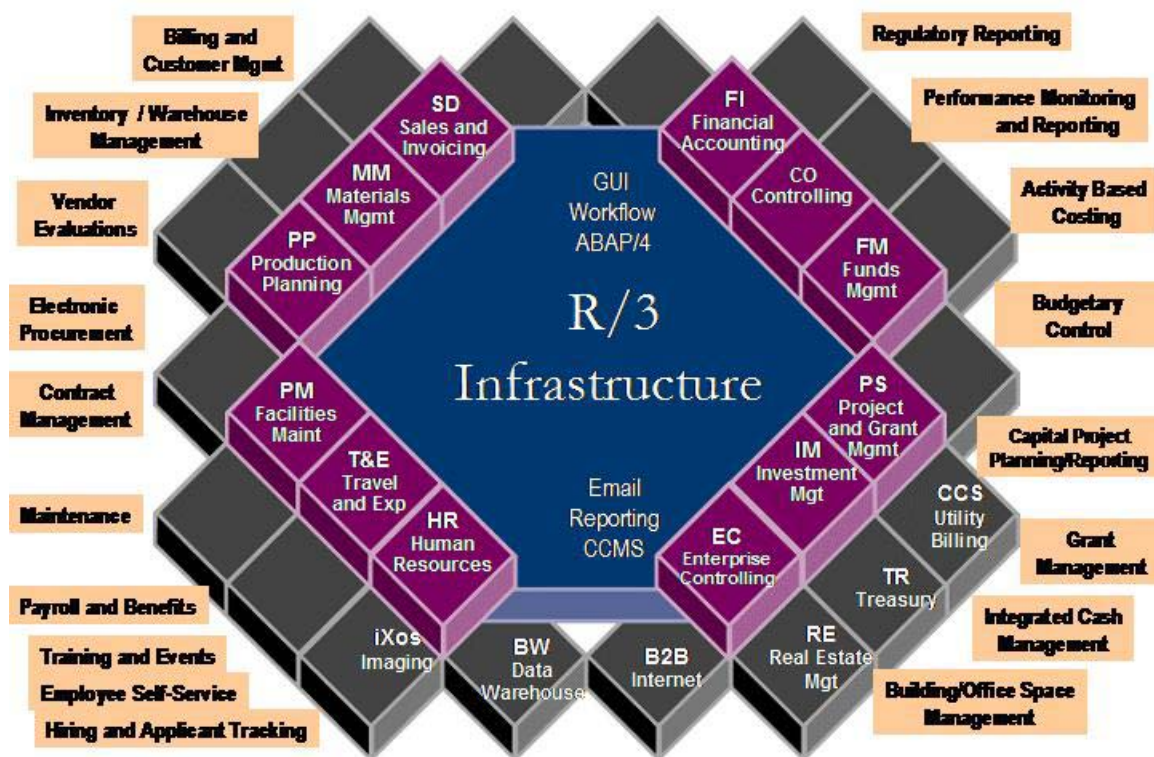


Figure 3. SAP ERP Landscape

The SAP project-specific reference model, driven by requirements defined through Solution Manager, takes the form of a Business Blueprint.

For a complete list of SAP Reference Model components, refer to Appendix A.

1.7 Strengths and Weaknesses

Any assessment of strengths and weaknesses in a product is relative to the intended use of the product. Strength in one context may be a serious weakness in another. For example, a closely-coupled software implementation pattern that enables an application to provide sub-second response is a strength in a situation where such response is essential to the Warfighter. That same pattern would be a serious weakness in a business systems context, where it would render the software difficult to maintain and change.

The following list of SAP's strengths and weaknesses is based on the

- Maturity and stability of the company's relevant product offerings,
- Viability of the vendor in the marketplace—financial strength and market share,
- Technology used to implement the product suite.

Product strengths and weaknesses are outside the scope of this document.

1.7.1 Strengths

SAP's strengths include:

- SAP has focused on producing products and services for the business application market. SAP's early suite of business solutions, developed in 1972, evolved into today's Web-enabled Enterprise Resource Planning (ERP) suite--mySAP.
- SAP has dominated the ERP solution space for many years. Even after recent consolidation in its market segment, SAP's products represent approximately 55% of the ERP solutions in production.
- Although SAP developed its original business solutions in the 1970s, the company has continuously evolved its technology base, application architecture, and the application functionality that those new technologies have enabled. The most recent evolution is the "web enabling" of its products, and its evolution to a component, services-based architecture.
- SAP's partner integration and certification program helps ensure the quality of third-party bolt-on products.

1.7.2 Weakness

SAP's weaknesses include:

- SAP continues to suffer from the perception that its products are difficult to deploy and maintain. Total cost of ownership is perceived to be much higher than the initial product acquisition and implementation cost.

Appendix A

SAP Modules	SAP Standard Business Processes
R/3	
Product Data Management	<ul style="list-style-type: none"> Product Trigger Product Definition/Development Product Service Engineering Change Management Product Data Distribution
Production Planning and Procurement Planning	<ul style="list-style-type: none"> Market-Oriented Planning Sales Order Oriented Planning Consumption-Driven Planning Distribution Requirements Planning
Procurement	<ul style="list-style-type: none"> Procurement of Materials and External Services Procurement via Subcontracting Procurement on a Consignment Basis Internal Procurement Pipeline Processing Source Administration Return Deliveries
Production	<ul style="list-style-type: none"> Discrete Production Repetitive Manufacturing Process Manufacturing Production Supply with KANBAN
Sales and Distribution	<ul style="list-style-type: none"> Pre-Sales Handling Sales Order Processing (Standard) Sales Order Processing: Make/Assembly To Order Cash Sales/Rush Order Handling Third-Party Order Processing Consignment Processing Intercompany Handling Sending Samples and Advertising Materials

	<p>Empties and Returnable Packaging Handling</p> <p>Complaints Processing</p> <p>Rebate Processing</p> <p>Foreign Trade Processing</p> <p>Deliver Processing</p> <p>Invoicing</p> <p>Pricing</p>
Inventory Management, Warehouse Management and Transportation	<p>Goods Movements</p> <p>Physical Inventory & Cycle Counting</p> <p>Decentralized Warehouse Management</p>
Customer Service	<p>Long-Term Service Agreements</p> <p>Call Center Processing</p> <p>Spare Parts Delivery Processing</p> <p>Repairs Processing at Customer (Field Service)</p> <p>Repairs Processing in Service Center (Inhouse)</p>
Plant Maintenance	<p>Breakdown Maintenance Processing</p> <p>Planned Maintenance Processing</p> <p>Project-Based Maintenance Processing</p> <p>Refurbishment Processing in Plant Maintenance</p>
Quality Management	<p>QM in Materials Management</p> <p>QM in Production</p> <p>QM in Sales and Distribution</p> <p>Test Equipment Management</p>
Environment, Health and Safety	<p>Basic Services and Tools</p> <p>Product Safety</p> <p>Master Data Processing Dangerous Goods Without Specification Database</p> <p>Master Data Processing Dangerous Goods with Specification Database</p> <p>Waste Management</p> <p>Industrial Hygiene and Safety</p> <p>Occupational Health</p>
Project Management	<p>Initiation</p>

	Planning
	Execution
	Closing
Financial Accounting	<ul style="list-style-type: none"> Basic Settings General Ledger Accounting Accounts Payable Accounts Receivable Bank Accounting Special Purpose Ledger Valuation of Balances Relevant to Balance Sheet Consolidation Funds Management
Treasury	<ul style="list-style-type: none"> Stocks [TR-SE] Subscription Rights [TR-SE] Bonds [TR-SE] Warrants [TR-SE] Warrant Bond [TR-SE] Convertible Bond [TR-SE] Process Deposit at Notice [TR-MM] Commercial Paper [TR-MM] Process Fixed-Term Deposit [TR-MM] Cash Flow Transactions [TR-MM] Currency Options [TR-FX] Forex Spot, Forward and Swap Transactions [TR-FX] Listed Derivative Transactions [TR-DE] Process OTC Derivative Transactions [TR-DE] Options on Interest Rate Instruments and Securities [TR-DE] Mortgage Loans Given [TR-LO] Mortgage Loans Taken [TR-LO] Refinancing Loans [TR-LO] Policy Loans [TR-LO] General Loans Given [TR-LO] General Loans Taken [TR-LO] Trading with Borrower's Notes [TR-LO] Cash Position [TR-CM]

	Liquidity Forecast [TR-CM] Financial Budgeting [TR-CBM] Evaluation of Actual Values [TR-CBM] Market Risk Management [TR-MRM]
Revenue and Cost Controlling	Profit and Cost Planning Actual Cost/Revenue Allocation Period-End Closing (Controlling)
Enterprise Controlling	Operational Business Planning Strategic Business Planning Consolidation Executive Information System (EIS)
Asset Accounting	Handling Fixed Assets Handling of Leased Assets Investment Program Handling [Capital Investments] Handling Simple Investment Measures Handling Complex Investment Measures Direct Capitalization
Real Estate Management	Real Estate Management
Organizational Management	Planning of Organizational Plan Planning Staff Assignment and Changes
Personnel Administration	Personnel Actions
Recruitment	Recruitment
Personnel Development	Personnel Development Planning Personnel Appraisal
Compensation Management	Compensation Planning Long-Term Incentives Personnel Budget Planning Job Pricing

	Personnel Cost Planning
Benefits Administration	Benefits Administration Employee Self-Service COBRA Health Insurance Claim
Personnel Time Management	Personnel Time Management Interfaces Personnel Shift Planning - Operative
Payroll	International Payroll Payroll - Country Specific
Training and Event Management	Basics Business Event Planning and Performance Business Event Attendance Administration Room Reservation Management Interfaces
HR Funds and Position Management	Integration with HR Master Data and Organizational Management Additional Integration with Funds Management and Payroll
Travel Management	Presettings for Travel Management Travel Request Travel Planning Travel Expenses
Retail	Master Data Strategic Sales Purchasing Merchandise Logistics Sales Store Connection Planning and Information Systems Cross-Application Processes
Industry Solution	

Industry Solution	
General Master Records	Material Master Material BOM Service Master Batch Central Business Partner Serial Numbers Handling Unit Work Center Customer Master Record Vendor Master Record Bank/Bank Directory TR/FI Taxes
APO	
Master Data	Core Interface - Integration Model APO Master Data
Demand and Supply Chain Planning	Integrated Demand Planning with APO DP, R/3 and OLTP Integrated Supply Planning with APO SNP, R/3 and OLTP Integrated Order Processing with APO PP/DS, R/3 and OLTP Strategic Supply Chain Planning with APO ND
Order Fulfillment and Availability Check	Strategic ATP Decisions Product Allocations During Sales Order entry Availability Check during Sales Order entry Availability Check with Third Party Order / Global Fulfillment
Collaborative Planning	Customer Collaboration Supplier Collaboration Integrated Vendor Managed Inventory with APO, R/3 and customer
Transportation and Supply Chain Planning	Strategic Supply Chain Planning with APO ND Integrated Transportation Forecast Planning with APO DP, R/3 and OLTP Integrated Network Planning with APO SNP, R/3 and OLTP Integrated Vehicle Scheduling with APO TP/VS, R/3 and OLTP

SEM	
Business Planning and Simulation (SEM-BPS)	Master Data Data Modeling Planning Modeling Information System Tools Task Functions on Information System Task Functions on Tools
Business Consolidation (SEM-BCS)	Master Data Preparatory Work: General Preparatory Work: Integration Preparatory Work: Production Processes of the Data Monitor Processes of the Consolidation Monitor Information System
Corporate Performance Monitor (SEM-CPM)	Balanced Scorecard Management Cockpit Measure Builder
B-to-B Procurement	
Business-to-Business Procurement	Master Data Operational Procurement & Direct Procurement Professional Procurement Component Planning Functions for External Business Partners Procurement Cards System Administration
BW	
Questions	Questions
Logical data model/Business measures	Business Content Measures (SAP Delivered) Template company specific measures (copy template)

CRM	
Master Data	<ul style="list-style-type: none"> Business Partner Product Product Catalog Service Interaction Center Internet Service Solution Database
Processes	<ul style="list-style-type: none"> General Activity
Field Sales	<ul style="list-style-type: none"> Business Partner Management Management of Contact Persons Product & Services Management Management of Common Functionality Classification Management Activity Management Activity Reporting management Opportunity Management Promotion & Campaign Management Sales Documents Management Agreements - Contracts Agreements - Conditions Agreements - Listings Reporting
Field Service	<ul style="list-style-type: none"> Mobile Service Agreement
Internet Sales	<ul style="list-style-type: none"> General Business to Business Business to Consumer
Service Interaction Center	<ul style="list-style-type: none"> Front Office Reporting (for internal sales) Results search Using Solution Database

Internet Customer Self Service	Service Processing Solution Search Using Solution Database Display Solution Log in Send Service Request Overview of My Service Requests Solution Database - Data Maintenance (for internet sales)
Telesales	Organization Contact Center Scope Definition Generic Functionality Sales Customer Interaction Center SAPphone Interfaces to CTI Reporting
Activity Management	Create Activity Maintain Activity
Opportunity Management	Orientation Process Opportunity Sales Cycle Partner Forecast Classification Texts Organization Assign Products Attachments
Marketing Planning	Marketing Plan Management Campaign Management Target Group Selection Personalized E-mail
Pervasive Service	Pervasive Service

Solution Database	Data Maintenance
Infrastructure	Service Interaction Center Marketplace Workplace Business Connector
Market Place	
Buy Side	Buy Side
Sell Side	Sell Side
Workplace	
Workplace	Workplace
Cross-Application Components	
European Monetary Unit: Euro	Additional Functions for the Euro Local Currency Changeover Currency Customizing and Handling for Euro
Document management system	Documents Document Structures Document Search Document Distribution
Classification System	Characteristics Classes Classification Object Selection Environment
CAD Integration	Objects Supported CAD Function Libraries
Business framework architecture	Data Transfer Workbench

	Application-Side BAPIs ALE Business Process Library Transceiver
Central Business Partner	Business Partner (CA) Business Partner Relationship (CA)
General Application Functions	Cross-Application Mass Maintenance Technical Application Support Business Application Support Mathematical Functions Data Retention Tool Scheduling
Personalization	Personalization
Idoc interface for EDI	Idoc Interface for EDI
Computer aided test tools applications	CATT Modules and Test Cases CATT Enhancement
Open information warehouse	Open Information Warehouse
Time Sheet	Time Sheet
Data Archiving	Data Archiving
Global Organization Customizing	Global Organizing Customizing
Middleware (CRM)	Middleware (CRM)
Palm Pilot (CRM)	Palm Pilot (CRM)
Field Sales/Field Service (CRM)	MS Office MS Outlook Mail System Infocenter

	Configuration (SCE)
	Pricing (SPE)
	Text Engine
	Expert Selection
IPC (Internet Pricing and Configuration-CRM)	
	IPC (Internet Pricing and Configuration-CRM)
Pervasive Service (CRM)	
	Pervasive Service (CRM)
Knowledge Warehouse	
Knowledge Warehouse	
	Knowledge Warehouse